

10/539011

MODIFIED PTO/SB/08 A & B (06-03)

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Substitute for Form 1449 A & B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

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of

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Application Number

Unassigned

Confirmation Number

Unassigned

Filing Date

June 15, 2005

First Named Inventor

Su-Jong KIM

Art Unit

Unassigned

Examiner Name

Unassigned

Attorney Docket Number

Q88593

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
MCH		KR	2003-65273	A	08-06-2003	Il Hwa Co., Ltd.	
MCH		KR	2003-80429		10-17-2003	Pacific Corporation	
MCH		WO	97/31013	A1	08-28-1997	Il Hwa Co., Ltd.	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
MCH		S.J. Lee et al., "Induction of apoptosis by a novel intestinal metabolite of ginseng saponin via cytochrome c-mediated activation of caspase-3 protease", <i>Biochemical Pharmacology</i> , Vol. 60, No. 5, 2000, pp. 677-685	
MCH		K. Hideo, "Metabolic activation of ginsenoside against cancer: intestinal bacterial deglycosylation and hepatic fatty-acid esterification", <i>Wakan Iyakugaku Zasshi</i> , Vol. 18, No. 6, 2000, pp. 218-278	

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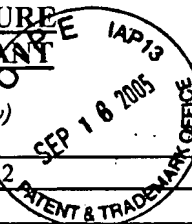
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		US			
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MCH		Maria O. Longas et al., "Evidence for Structural Changes in Dermatan Sulfate and Hyaluronic Acid with Aging", <i>Carbohydrate Research</i> , Vol. 159, 1987, pp. 127-136	
		Ilaria Ghersetich et al., "Hyaluronic Acid in Cutaneous Intrinsic Aging", <i>International Journal of Dermatology</i> , Vol. 33, No. 2, February 1994, pp. 119-122	
		Paraskevi Heldin et al., "Effect of growth factors on hyaluronan synthesis in cultured human fibroblasts", <i>Biochem. J.</i> , Vol. 258, 1989, pp. 919-922	
		Paraskevi Heldin et al., "Characterization of the molecular mechanism involved in the activation of hyaluronan synthetase by platelet-derived growth factor in human mesothelial cells", <i>Biochem. J.</i> , Vol. 283, 1992, pp. 165-170	
		Masanobu Suzuki et al., "Stimulation of hyaluronan biosynthesis by platelet-derived growth factor-BB and transforming growth factor- β 1 involves activation of protein kinase C", <i>Biochem. J.</i> , Vol. 307, 1995, pp. 817-821	
MCH		Evelina Tirone et al., "Hyaluronan Synthesis by Mouse Cumulus Cells Is Regulated by Interactions between Follicle-stimulating Hormone (or Epidermal Growth Factor) and a soluble Oocyte Factor (or Transforming Growth Factor β_1)", <i>The Journal of Biological Chemistry</i> , Vol. 272, No. 8, February 21, 1997, pp. 4787-4794	

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MC #		Raija Tammi et al., "Hyaluronate Accumulation in Human Epidermis Treated with Retinoic Acid in Skin Organ Culture", <i>The Journal of Investigative Dermatology</i> , Vol. 92, no. 3, March 1989, pp. 326-332	
		Hiroshi Akiyama et al., "Analytical Studies on Hyaluronic Acid Synthesis by Normal Human Epidermal Keratinocytes Cultured in a Serum-Free Medium", <i>Biol. Pharm. Bull.</i> , Vol. 17, No. 3, 1994, pp. 361-264	
		Shingo Sakai et al., "N-Methyl-L-Serine Stimulates Hyaluronan Production in Human Skin Fibroblasts", <i>Skin Pharmacol. Appl. Skin Physiol.</i> , Vol. 12, 1999, pp. 276-283	
		Harry Sobel et al., "Effect of Estradiol on Hyaluronic Acid in the Skin of Aging Mice", <i>Steroids</i> , Vol. 16, No. 1, July 1970, pp. 1-3	
		J. Peter Beltley et al., "Increased Hyaluronate and Collagen Biosynthesis and Fibroblast Estrogen Receptors in Macaque Sex Skin", <i>The Journal of Investigative Dermatology</i> , Vol. 87, No. 5, November 1986, pp. 668-673	
		Kouji Miyazaki et al., "Genistein and Daidzein Stimulate Hyaluronic Acid Production in Transformed Human Keratinocyte Culture and Hairless Mouse Skin", <i>Skin Pharmacol. Appl. Skin Physiol.</i> , Vol. 15, 2002, pp. 175-183	
		Paul H. Weigel et al., "Hyaluronan Synthases", <i>The Journal of Biological Chemistry</i> , Vol. 272, No. 22, May 30, 1997, pp. 13997-14000	
		Juha-Pekka Pienimäki et al., "Epidermal Growth Factor Activates Hyaluronan Synthase 2 in Epidermal Keratinocytes and Increases Pericellular and Intracellular Hyaluronan", <i>The Journal of Biological Chemistry</i> , Vol. 276, No. 23, June 8, 2001, pp. 20428-20435	
		Hideo Hasegawa et al., "Main Ginseng Saponin Metabolites Formed by Intestinal Bacteria", <i>Planta Med.</i> , Vol. 62, 1996, pp. 453-457	
		M. Karikura et al., "Studies on Absorption, Distribution, Excretion and Metabolism of Ginseng Saponins. V. The Decomposition Products of Ginsenoside Rb ₂ in the Large Intestine of Rats", <i>Chem. Pharm. Bull.</i> , Vol. 38, No. 10, 1990, pp. 2859-2861	
MC #		Raul Fleischmajer et al., "Human Dermal Glycosaminoglycans and Aging", <i>Biochimica et Biophysica Acta</i> , Vol. 279, 1972, pp. 265-275	

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